

# **Cold (neutronless) alpha ternary fission of $^{252}\text{Cf}$ .\***

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The phenomenon of cold (neutronless) alpha ternary fission in spontaneous fission of  $^{252}\text{Cf}$  was experimentally observed by triple gamma coincidence technique with Gammasphere with 72 gamma-ray detectors. Correlated pairs of  $^{36}\text{Kr}$ - $^{60}\text{Nd}$ ,  $^{38}\text{Sr}$ - $^{58}\text{Ce}$ ,  $^{40}\text{Zr}$ - $^{56}\text{Ba}$ ,  $^{42}\text{Mo}$ - $^{54}\text{Xe}$ ,  $^{44}\text{Ru}$ - $^{52}\text{Te}$ , and  $^{46}\text{Pd}$ - $^{50}\text{Sn}$  were observed to be associated with alpha ternary fission of  $^{252}\text{Cf}$ . Yields of cold alpha ternary fission were extracted.

## *Footnotes and References*

\*Published in Physical Review C vol.57, 1998. p.2370